PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	ннн ннн ннн ннн	00000000 00000000 00000000	NNN NNN NNN NNN	
PPP PPP PPP PPP	HHH HHH HHH	000 000 000 000	NNN NNN NNN NNN	EEE
PPP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	HHH HHH HHH HHH HHH	000 000 000 000 000 000	NNNNNN NNN NNNNNN NNN NNN NNN NNN	EEE EEE EEEEEEEEEEEEE
PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	нинининининин нинининининин нин нин	000 000 000 000 000	NNN NNN NNN NNN NNN NNN NNN NNNNNN	EEEEEEEEEEEE EEE
PPP PPP PPP	HHH HHH HHH HHH	000 000 000 000	NNN NNNNN NNN NNNNNN	EEE EEE
PPP PPP PPP	HHH HHH HHH HHH HHH HHH	000 000 000 000 00000000 000000000	NNN NNN NNN NNN NNN NNN	EEE EEEEEEEEEEEEEEEE EEEEEEEEEEEEEE
PPP	нни нни	000000000	NNN NNN	EEEEEEEEEEEE

\_\$2

PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	HH H	000000 00 00 00 00	NN	::::
		\$		
		\$		

V(

0 %title 'PHONE - VAX/VMS Telephone facility'
0 module phone ( main=phn\$phone, ident='V04-000') = begin

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Facility:

VAX/VMS Telephone facility, Main Module

Abstract:

89012345678901234567890123456789012345678901234567

This facility allows the user to talk to other users on the local node or any other node. The goal of this facility is to simulate a real telephone as closely as possible, hopefully resulting in good human engineering.

Special thanks to Tim Halvorsen, author of TALK, the original VAX/VMS telephone facility.

Environment:

Native, User mode. The following privileges are required for full operation; PHONE should be installed with them:

NETMBX To call over the network. OPER To ring a phone via broadcasting. PRMMBX To talk to any other user.

To obtain information about other processes.

For remote communication, we assume all participating nodes have DECnet Phase III, with routing.

Author: Paul C. Anagnostopoulos, Creation Date: 18 November 1980

Modified By:

0054 0055

0056

V03-004 BLS0251

Benn Schreiber

8-Dec-1983

PHONE V04-000	PHONE - VAX/VM	S Telephone facility	D 11 16-Sep-1984 02:15:58 14-Sep-1984 12:53:28	VAX-11 Bliss-32 V4.0-742 Page 2 DISK\$VMSMASTER:[PHONE.SRC]PHONE.B32;1 (1)
58 59 60 61	0058 1 ! 0059 1 ! 0060 1 !	Increase size of extra overhead ch \$TRNLNM.	mailbox name buffer to accour aracters added. Convert \$TRM	nt for NLOG to
62	0060 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-003 PCA1004 P \$ASSIGN no longer a mailbox that do	aul C. Anagnostopoulos 8-Nov returns SS\$_IVDEVNAM when as esn't exist. It now returns	v-1982 ssigning to SS\$_NOSUCHDEV.
64 65 66 67 68 69	0066 1 0067 1	V03-002 PCA1000 PRemove all refere	aul C. Anagnostopoulos 5-0c nces to CLISEND_PARSE, which	t-1982 is now obsolete.
69 70 71	0069 1 1 0070 1 1 0071 1 1	V03-001 PCA0045 P Major changes to	aul Anagnostopoulos 26-Mar convert from process name to	r-1982 user name.

PV

```
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE
V04-000
                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[PHONE.SRC]PHONE.B32;1
                                 PHONE - VAX/VMS Telephone Facility
                                 Module Declarations
                                                %sbttl 'Module Declarations'
      Libraries and Requires:
                                                library 'sys$library:starlet.l32';
literal global_data = 1;
require 'phonereq';
                                                                                                                                      To suppress generation of external data declarations.
                                                     Table of Contents:
                                                forward routine
                                                                 phn$phone: novalue,
                                                                 phnsphone: novatue,
phnsinit_main: novatue,
phnsdcl_command_line: novatue,
phnsqueue_smb: novatue,
phnskitt_smb: novatue,
phnsprepare_users_target: novatue;
                                                     External References:
                                                external routine
                                                                 clisget_value: addressing_mode(general),
clispresent: addressing_mode(general),
libsfree_vm: addressing_mode(general),
libsget_vm: addressing_mode(general),
otsscvt_ti_l: addressing_mode(general),
obsscvt_ti_l: addressing_mode(general),
                                                                 phn$answered.
                                                                 phn$busy.
                                                                 phn$cmd_parse,
phn$exit_handler,
phn$facsimile2,
                                                                 phn$forced_link.
                                                                 phn$held,
phn$help2,
                                                                 phn$hungup,
phn$init_slave,
phn$init_term,
phn$inform,
                                                                 phn$kbd_get,
phn$kbd_route,
phn$directory2,
phn$listen,
      116
117
118
119
120
121
122
123
124
125
126
127
128
                                                                  phn$make_pub
                                                                  phn$mbx_enable,
                                                                 phn$mbx_name,
phn$rang_in,
phn$rejected,
                                                                 phn$ring_out, phn$talk,
                                                                  phnSunheld.
                                                                  str$trim: addressing_mode(general);
```

PHONE V04-000	PHONE - VAX/VMS Telephone Facility Module Declarations	F 11 16-Sep-1984 14-Sep-1984	02:15:58 12:53:28	VAX-11 Bliss-32 V4.0-742 Page 4 DISK\$VMSMASTER:[PHONE.SRC]PHONE.B32;1 (2)
130 131 132 133 134 135 136 137 138 139	0457 1 ! 0458 1 ! Own Variables: 0459 1 ! 0460 1   0460 1   0461 1 ! The following is the head of the SME 0462 1 ! by this module. 0463 1   0464 1 own 0465 1   smb_queue_head: vector[2,long: 0466 1   initial(rep 2			anipulated

```
G 11
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE
V04-000
                    PHONE - VAX/VMS Telephone Facility Module Declarations
                                                                                                                 VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [PHONE.SRC]PHONE.B32;1
                    14456789
14456789
1446789
1553456789
1666789
                                 Global Variables:
                                 The following declarations constitute all the global data for the facility.
                               ! First we declare a buffer to hold our DECnet node name:
                               global
                                         own_described_buffer(phn$gq_node_name,9);
                               ! Next we declare the variables that will contain the command qualifiers:
                               global
                                         own_described_buffer(phn$gq_switch_hook,1),
phn$gl_viewport_size: long,
phn$gb_scroll: byte;
                               ! Now we declare the head of the PUB chain.
                               global
                                         phn$gq_pubhead: vector[2,long]
    initial(rep 2 of (phn$gq_pubhead));
                               ! Finally, we have a byte of global flags necessary for controlling
                            1 ! screen dynamics.
                              global
                                         phn$gb_flags: byte
    initial(%b'00000000');
```

```
H 11
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE
VO4-000
                                                         PHONE - VAX/VMS Telephone facility PHN$PHONE - Mainline Routine
                                                                                                                                                                                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 Particle Property Particle Property Prope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page
                                                                                      %sbttl 'PHN$PHONE - Mainline Routine'
                                                         Functional Description:
                                                                                                                     This is the main routine for the PHONE facility.
                                                                                              Formal Parameters:
                                                                                                                    none
                                                                                               Implicit Inputs:
                                                                                                                    global data
                                                                                               Implicit Outputs:
                                                                                                                    global data
                                                                                               Returned Value:
                                                                                                                   none
                                                                                             Side Effects:
                                                                                       global routine phn$phone: novalue = begin
                                                                                      OWD
                                                                                                                    routine_table: vector[19,long] initial(
                                                                                                                                                phn$kbd_get,
phn$kbd_route,
phn$cmd_parse,
phn$talk,
                                                                                                                                                 phn$help2,
                                                                                                                                                 phn$ring_out,
                                                                                                                                                                                                                                                                      ! Network slave SMB only.
                                                                                                                                                 phn$rang_in,
                                                                                                                                                 phn$hungup,
                                                                                                                                                 phn$busy.
                                                                                                                                                 phnSanswered,
                                                                                                                                                 phn$rejected,
                                                                                                                                                                                                                                                                      ! Network slave SMB only.
                                                                                                                                                phn$listen,
phn$directory2,
phn$facsimile2,
                                                                                                                                                 phn$forced_link,
                                                                                                                                                 phn$held.
                                                                                                                                                 phn$unheld);
                                                                                     local
                                                                                                                    status: long,
trnlnmlst : $itmlst_decl(items=1),
                                                                                                                     s: ref smb;
                                                                                             The very first thing we do is find out if this VAX is running DECnet, and
                                                                                             set up a global buffer with the node name, or null string if not. Eliminate any underscore in the name for prettiness.
                                                                                      $itmlst_init(itmlst=trnlnmlst,
```

```
VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[PHONE.SRC]PHONE.B32;1
                PHONE - VAX/VMS Telephone Facility PHN$PHONE - Mainline Routine
                                                               16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE
V04-000
                                                                                                                               (4)
               0553
0554
0555
0556
0557
0558
0559
                               lognam=$descriptor('SYS$NODE').
                                       acmode=%ref(psl$c_exec),
                                       itmlst=trnlnmlst);
               if .status eqlu ss$_nolognam_then
                               phn$gq_node_name[len] = 0
                       else (
                               check (.status);
                               inc (phn$gq_node_name[ptr]);
                               ):
                       ):
                         It is possible that we have been fired up as a network slave for
                         someone on a remote node that wants to talk to someone on our node.
                          The following routine will check for this, and will never return
                       ! if it is the case.
                       phn$init_slave();
                       ! I guess not. Begin an interactive session by initializing.
                       phn$init_main();
                         This is the main processing loop. We wait for routines to put Steering
                         Message Blocks on the queue. We then remove them one by one and call
                         the specified steering message routine, passing it the message text in
                         the block. Whenever the queue empties, we go back to waiting.
                       Loop (
                               ! Wait for an SMB to be placed on the queue. There may already be one.
                               status = $clref(efn=phn$k_smbefn);
                               if .status nequ ss$_wasset then (
                                       check (.status);
                                       status = $waitfr(efn=phn$k_smbefn);
                                       check (.status);
                               );
                                 We have at least one SMB. Go into a loop removing them from the
                                ! front of the queue. When we empty the queue, go back and wait.
                               while not remque(.smb_queue_head[0],s) do (
                                         If the SMB type code is valid, call the appropriate
                                         steering message routine. Pass it the message text
                                         descriptor, which it can clobber.
                                       if (.s[smb_w_type] gequ 1) and
  (.s[smb_w_type] lequ %allocation(routine_table)/4) then
```

P

```
PHONE - VAX/VMS Telephone Facility PHN$PHONE - Mainline Routine
                                                                        16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [PHONE.SRC]PHONE.B32;1
PHONE
V04-000
   285
286
288
289
290
291
293
294
295
                  0610
0611
0612
0613
0614
0615
0616
0617
0618
0619
0620
0621
                                                      (.routine_table[.s[smb_w_type]-1]) (s[smb_q_msg])
                                             else
                                                      phn$inform(phn$_badsmb);
                                             ! Get rid of the SMB.
                                             phn$kill_smb(.s);
                                    ):
                           ):
                         1 end:
                                                                                   .TITLE
                                                                                            PHONE PHONE - VAX/VMS Telephone Facility
                                                                                   . IDENT
                                                                                            \V04-000\
                                                                                    .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                    00000 P.AAB:
                                   53 59
                                            53 24
                                                      4D
                                                          4E
                                                                                    .ASCII
                                                                                            \LNM$SYSTEM\
                                                                                    .BLKB
                                                                    0000A
                                                                    0000C P.AAA:
                                                         A000000A
                                                                                   . LONG
                                                                                            10
                                                        00000000
                                                                                    .ADDRESS P.AAB
                                                                    00010
                                                        00000008
                                                                   00014 P.AAD:
0001C P.AAC:
                                                 24
                                                                                   .ASCII
                                                                                            \SYS$NODE\
                                                                                   .LONG
                                                         00000000
                                                                                    .ADDRESS P.AAD
                                                                   00020
                                                                                    .PSECT SOWNS.NOEXE.2
                                                        00000000' 00004 SMB_QUEUE_HEAD:
-ADDRESS SMB_QUEUE_HEAD
-ADDRESS SMB_QUEUE_HEAD
ADDRESS PHNSKBD GET, PHNSKBD ROUTE, -
PHNSCMD PARSE, PHNSTACK, PHNSHELP2, -
PHNSRING OUT
                                                         00000000
                                                                                    .LONG
                                                                                   .ADDRESS PHN$RANG IN, PHN$HUNGUP, PHN$BUSY, -
PHN$ANSWERED, PHN$REJECTED
           .LONG
                                                                                    .ADDRESS PHN$LISTEN, PHN$DIRECTORY2, -
PHN$FACSIMILE2, PHN$FORCED_LINK, -
                                                                                            PHNSHELD, PHNSUNHELD
                                                                                    .PSECT $GLOBAL$, NOEXE, 2
                                                                   00000 PHN$GQ_NODE_NAME::
                                                        00000009
                                                                                    .ADDRESS PHN$GQ_NODE_NAME+8
                                                         00000000
                                                                    80000
                                                                                    .BLKB
                                                                                    BLKB
                                                                    00014 PHN$GQ_SWITCH_HOOK::
                                                        00000001
                                                                   00018
00010
00010
                                                         00000000
                                                                                    ADDRESS PHNSGQ_SWITCH_HOOK+8
                                                                                    .BLKB
                                                                    00020 PHNSGL_VIEWPORT_SIZE ::
```

P

```
K 11
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
                               VAX-11 Bliss-32 V4.0-742
                                                                               Page
                               DISK$VMSMASTER: [PHONE.SRC]PHONE.B32:1
```

```
00024 PHNSGB_SCROLL::
                           .BLKB
           00025 BLKB ... BLKB ...
00000000
                           ADDRESS PHNSGQ_PUBHEAD ADDRESS PHNSGQ_PUBHEAD
           0002C .ADDRES
00000000
      00
```

PHNS OK, PHNS ANSWERED
PHNS BUSYCALL, PHNS CANCALL
PHNS CANTREACH, PHNS CONFCALL
PHNS CANTREACH, PHNS CONFCALL
PHNS DEAD, PHNS DECRETLINK
PHNS DIRCAN, PHNS FACSCAN
PHNS HELPCAN, PHNS HUNGUP
PHNS JUSTRANG, PHNS LOGGEDOFF
PHNS REJECTED, PHNS RING
PHNS REJECTIUNK
PHNS SENDINGMAIL
PHNS BADCMD, PHNS BADHELP
PHNS BADCMD, PHNS BADHELP
PHNS BADSMB, PHNS BADSPEC
PHNS HELPMISSING
PHNS IVREDUNCALL
PHNS NOPOCALL, PHNS NOFOLDS
PHNS NOPORTS, PHNS NOPRIV
PHNS NOPOC, PHNS NOTCONV
PHNS TARGTERM, PHNS UNPLUGGED
PHNS TARGTERM, PHNS UNPLUGGED
PHNS TARGTERM, PHNS SHAREDMBX
PHNS TARGTERM, PHNS SHAREDMBX
PHNS TARGTERM, PHNS SHAREDMBX
PHNS TARGTERM, PHNS UNPLUGGED
PHNS NOPOC, PHNS NOTCONV
PHNS ONLYNODE, PHNS UNPLUGGED
PHNS TARGTERM, PHNS UNPLUGGED
PHNS TARGTERM, PHNS UNPLUGGED
PHNS TARGTERM, PHNS UNPLUGGED
LINK
PHNS ANSWERED, PHNS FOR CED LINK
PHNS ANSWERED, PHNS BOSY
PHNS CMD PARSE, PHNS FOR CED LINK
PHNS HUNGUP, PHNS INIT SLAVE
PHNS INIT TERM, PHNS INIT SLAVE
PHNS HUNGUP, PHNS HINIT SL .EXTRN EXTRN .EXTRN EXTRN .EXTRN EXTRN .EXTRN .EXTRN .EXTRN .EXTRN

0518

## .PSECT SCODES, NOWRT, 2

PHN\$PHONE, Save R2,R3,R4,R5 LIB\$SIGNAL, R5 PHN\$GQ\_NODE\_NAME, R4 .ENTRY 003C 00000 55 00000000G 9E 9E 00002 00 MOVAB 0000 00009 MOVAB

0110	416
PHU	NE
<b>VU4</b>	-000

PHONE -	- VAX	/VMS	Telephone	e Facility
PHN\$PHO	DNE -	Main	Line Rou'	e facility

16-5-0-1984	02-15-58	VAX-11 BL
L 11 16-Sep-1984 14-Sep-1984	12:53:28	DÎŜK\$VMSM

VAX-11 Bliss-32 V4.0-742 Page 10 DISK\$VMSMASTER:[PHONE.SRC]PHONE.B32;1 (4)	VAX-11 Bliss-32 DISK\$VMSMASTER:	V4.0-742 PHONE.SRC]PHONE.B3	Page 2:1	10
---	-------------------------------------	--------------------------------	-------------	----

	5E	00	18	CS	0000E		SUBL 2	#24, SP	
	5E 50 80 80 80	08	18 AE 64 02 A4	29880984F099999F0012	00011		MOVAB MOVW	TRNLNMLST, \$\$ITMBLKPTR PHN\$GQ NODE NAME, (\$\$ITMBLKPTR)+ #2, (\$\$ITMBEKPTR)+ PHN\$GQ NODE NAME+4, (\$\$ITMBLKPTR)+ PHN\$GQ NODE NAME, (\$\$ITMBLKPTR)+ (\$\$ITMBEKPTR)+ TRNLNMLST #1, 8(\$P) 8(\$P) P.AAC	0554
	80	04	20	BO	00018 0001B 0001F 00022		MOVU	W2, (\$\$ITMB[KPTR]+	
	80	04	64	9E	0001F		MOVAB	PHNSGO NODE NAME, (SSITMBLKPTR)+	
		08	AE AE	04 9F	00022		CLRL PUSHAB	(\$\$ITMBLKPTR)+ TRNLNMLST	0560
80	AE		AE O1 AE CF	DO	00024 00027 0002B 0002E 00032		MOVL PUSHAB	#1, 8(SP)	. 0,00
		0000	AE CF	9F	0002B		PUSHAB	B(SP) P-AAC	
10	AF	0000	CF 8F	9F	00032		PUSHAB	1 1000	
10	AE	02000000	AE	9F	00036 0003E		MOVL PUSHAB	#33554432, 16(SP) 16(SP)	
0000000G	00 53		05	FB	00041		CALLS	#5, SYS\$TRNLNM	
000001BC	8F		AE 05 50 53	01	0003E 00041 00048 0004B 00052		MOVL CMPL	RO, STATUS STATUS, #444	0562
			04	12	00052		BNEQ	15	
			14	B4	סכטטט		CLRW BRB	PHNSGQ_NODE_NAME 3\$	0563
	05		14 53 53	E8	00058	15:	BLBS	STATUS, 2\$	0565
	65 8F		01	DD FB	0005B		PUSHL	STATUS #1, LIB\$SIGNAL	
5F	8F	04	B4 05	91	00060	2\$:	CMPB	aPHN\$GQ_NODE_NAME+4, #95	0566
			64	91 12 B7 D6 FB	00065		BNEQ	3\$ PHN\$GQ_NODE_NAME	0567
0000G	CF	04	A4	06	00069	3\$:	INCL	PHNSGQ NODE NAME+4	0568 0577
0000v	CF		00	FB	00071	34:	CALLS	#0, PHRSINIT_SLAVE	0581
0000000G	00		A4 00 03 01 53	DD FB	00076 00078 0007F	45:	PUSHL	#5	0592
00000000	00 53		50	DO	0007F		MOVL	#1, SYS\$CLREF RO, STATUS	
	09		53	D1 13	00032		CMPL	STATUS, N9	0593
	05		10 53 53	E8	00087		BEQL	STATUS, 5\$ STATUS	0594
	65		53	DD FB	A8000 38000		PUSHL	STATUS #1, LIB\$SIGNAL	
			0.5	DD	OUUSE	58:	PUSHL	#3	0595
000000006	00 53 05		01 50 53 51	FB DO E8	00091		MOVL	#1, SYS\$WAITFR RO, STATUS	
	05		53	E8	0009B		BLBS PUSHL	STATUS, 65	0596
	45		53	DD	0009E		PUSHL	STATUS #1. LIB\$SIGNAL	
	65 52	0000	DF	0F	00091 00098 0009B 0009E 000A0	6\$:	CALLS REMQUE	SMB_QUEUE_HEAD, S	0602
		0A	CC A2 18	1D	8A000 AA000 DA000		BVS	10(S)	0608
	4.7		18	13	000AD		BEQL	7\$ 10(S), #19	
	13	OA	12	B1 1A	000AF 000B3		CMPW BGTRU	10(S), #19 7\$	0609
	50 50	0A	ÀŽ	3C	000B5		MOVZWL	10(S), RO	0611
	50	0000.0	A2	DU 9F	000B9 000Bf		MOVL PUSHAB	ROUTINE_TABLE-4[RO], RO	
	60	•	01	3C DO 9F FB 11	00005		CALLS	#1. (RO) 8\$	
		00000000G	OB 8F	11 DD	000C2 000C5 000C7	75:	BRB PUSHL	#PHN\$_BADSMB	0613
0000G	CF	30300000	01 52	DD	000CD	0.0	CALLS	#1, PANSINFORM	
			26	DD	00002	09:	PUSHL	S	0617

PHONE V04-000

PHONE - VAX/VMS Telephone Facility PHNSPHONE - Mainline Routine

M 11 16-Sep-1984 02:15:58 14-Sep-1984 12:53:28

VAX-11 Bliss-32 V4.0-742 Page 11 DISK\$VMSMASTER:[PHONE.SRC]PHONE.B32;1 (4)

0000V CF

01 FB 000D4 C8 11 000D9

CALLS #1, PHN\$KILL\_SMB BRB 6\$

: 0602

; Routine Size: 219 bytes, Routine Base: \$CODE\$ + 0000

```
N 11
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
                                                                                             VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: EPHONE.SRCJPHONE.B32:1
PHONE
                 PHONE - VAX/VMS Telephone facility
V04-000
                 PHNSINIT_MAIN - Initialize Our Wonderfullness
  %sbttl 'PHN$INIT_MAIN - Initialize Our Wonderfullness'
                Functional Description:
                                  This routine is called at the very beginning of execution
                                  to initialize everything.
                           Formal Parameters:
                                  none
                           Implicit Inputs:
                                  global data
                           Implicit Outputs:
                                  global data
                           Returned Value:
                                  none
                           Side Effects:
                         global routine phn$init_main: novalue = begin
                         OWN
                                  exit_status: long,
                                  exit_control_block: yestor[4,long]
                                                   initial(0,phn$exit_handler,1,exit_status);
                         OWN
                                  own_described_buffer(user_name,12);
                         bind
                                  get_name = uplit(word(12),word(jpi$_username),
                                                    long(user_name+8),
                                                    long(user_name),
                                                    long(0));
                         local
                                  status: long,
                                  op: ref pub;
                                                                    ! Pointer to our PUB.
                         ! We begin by obtaining our user name.
                         check (.status);
status = $waitfr(efn=phn$k_getjpiefn);
                 0669
                 0670
                         check (.status);
                 0671
                         str$trim(user_name,user_name,user_name);
                 0672
0673
                           Now we can create a PUB to represent ourselves, known as "our PUB".
                                                                                                    Our
                 0674
0675
0676
                           PUB is always assumed to be the first one on the PUB chain.
                         status = phn$make_pub(user_name,op);
                 0677
                         check (.status);
                         op[pub_v_temporary] = false;
```

```
B 12
                 PHONE - VAX/VMS Telephone Facility
                                                                     16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE
                                                                                               VAX-11 Bliss-32 V4.0-742
V04-000
                 PHNSINIT MAIN - Initialize Our Wonderfullness
                                                                                               DISK$VMSMASTER: [PHONE.SRC]PHONE.B32:1
   0680
                            Now we have to assign ourselves to our receive mailbox, the mailbox that
                 0681
                            other users will send us messages in. The mailbox may already have been
                 0682
0683
                            created by some other user trying to call us, so first we try to assign
                          ! to it.
                 0684
0685
                         begin
                 0686
0687
                                  local_described_buffer(mbx name,4+32);
                 0688
                 0689
                          phn$mbx_name(user_name,mbx_name);
                 0690
                          status = $assign(devnam=mbx_name,
                         chan=op[pub_w_channel]);
if (.status negu ss$_nosuchdev)
                 0691
                 0692
0693
                              and (.status nequ ss$_ivdevnam) then
                0694
0695
0696
0697
0698
0699
                                  check (.status)
                         else (
                                    Nope, our mailbox doesn't exist. Try to create a permanent
                                    mailbox with the name. Mark it for deletion so we don't leave
                                    crud around later.
                                  status = $crembx(prmflg=1,
                0701
                                                     chan=op[pub_w_channel],
maxmsg=phn$k_mbxsize,
                0702
                                  if .status nequ ss$_nopriv then (
                check (.status);
                                           status = $delmbx(chan=.op[pub_w_channel]);
                                           check (.status):
                                  ) else (
                                             Too bad, we don't have the privilege to create a permanent
                                             mailbox. Try to create a temporary one so the guy can at
                                             least talk to him/herself.
                                           status = $crembx(prmflg=0,
                                                             chan=op[pub_w_channel],
maxmsg=phn$k_mbxsize,
                                                             lognam=mbx_name);
                                           check (.status):
                                  ):
                         end:
                           Now we can enable our mailbox, allowing an AST to be delivered when someone
                         ! sends us a message. There may already be a message waiting.
                          phn$mbx_enable();
                            Now we have to obtain the various goodies from the command line. This is
                            done after enabling our mailbox so any messages from other people will be
                           handled before any subcommand included on the PHONE command.
                          phn$dcl_command_line();
                            Finally we initialize the user's terminal. This is done last so that
   411
                            anything the user types will be handled after any subcommand included
```

PI

VC

```
C 12
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE
                                                                                                              VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[PHONE.SRC]PHONE.B32;1
                    PHONE - VAX/VMS Telephone facility
V04-000
                    PHN$INIT_MAIN - Initialize Our Wonderfullness
   412
413
414
415
                    0736
0737
0738
0739
                           2 ! on the PHONE command.
                              status = phn$init_term();
                             check (.status);
                    0740
   416
417
418
420
421
423
424
                    0741
0742
0743
                              ! From this point on, we want to perform some clean-up if the user exits.
                           2 status = $dclexh
2 check (.status);
                             status = $dclexh(desblk=exit_control_block);
                    0744
                    0745
                    0746
0747
                           Ž return;
                    0748
                           1 end:
                                                                                             .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                              0000
0202
00000000'
00000000'
                                                                           00024 P.AAE:
                                                                                                      12
514
                                                                                             . WORD
                                                                                             . WORD
                                                                           00028
                                                                                             .ADDRESS USER_NAME+8
                                                                           0002C
                                                                                             .ADDRESS USER_NAME
                                                                           00030
                                                                                             .LONG
                                                                                             .PSECT SOWNS, NOEXE, 2
                                                                           00054 EXIT_STATUS:
                                                                                              BLKB
                                                                           00058 EXIT_CONTROL_BLOCK:
                                                               00000000
                                                               00000000G 0005C
                                                                                             .ADDRESS PHNSEXIT_HANDLER
                                                              00000001
00000000°
                                                                           00060
                                                                                             .LONG
                                                                                             .ADDRESS EXIT_STATUS
                                                                           00064
                                                                           00068 USER_NAME:
                                                                                             .LONG
                                                                                             .ADDRESS USER_NAME+8
.BLKB 12
                                                               00000000
                                                                           0006C
                                                                           00070
                                                                                   GET_NAME=
                                                                                                            P.AAE
                                                                                             .EXTRN
                                                                                                      SYS$GETJPI, SYS$ASSIGN
                                                                                             .EXTRN
                                                                                                       SYS$CREMBX, SYS$DELMBX
                                                                                             .EXTRN
                                                                                                      SYS SDCLEXH
                                                                                             .PSECT
                                                                                                       SCODES, NOWRT, 2
                                                                                                                                                                 0645
                                                                     007C 00000
                                                                                              ENTRY
                                                                                                       PHN$INIT_MAIN, Save R2,R3,R4,R5,R6
                                                    000000006
                                                                       9E
9E
                                                 56
55
54
5E
                                                                           00002
                                                                                                       SYSSCREMBX, R6
                                                                                             MOVAB
                                                                                                       USER NAME, R5
LIB$SIGNAL, R4
                                                                           00009
                                                                                             MOVAB
                                                     00000000G
                                                                   00
7E
7E
CF
                                                                           0000E
                                                                                             MOVAB
                                                                                             SUBL 2
                                                                           00015
                                                                                                       #48. SP
                                                                                                                                                                 0667
                                                                                                       -(SP)
                                                                           00018
                                                                                             CLRQ
                                                                       04
9F
                                                                           0001A
                                                                                             CLRL
                                                                                                       -(SP)
                                                                                             PUSHAB
                                                                                                       GET_NAME
-(SP)
                                                          0000
                                                                           0001C
                                                                           00020
00022
00024
                                                                   7E
01
                                                                        70
                                                                                             CLRQ
                                                                                             PUSHL
                                                                        DD
                                                                       FB
DO
                                                                                                       #7. SYSSGETJPI
RO. STATUS
                                                                                             CALLS
                                   00000000G
                                                                           0002B
                                                                                             MOVL
```

VC

••••

BLBS

PUSHL

CALLS

CALLS

CLRQ CLRL MOVZWL

PUSHL

PUSHAB

BRB

STATUS, 5\$

#1, LIB\$SIGNAL (R2), -(SP) #1, SYS\$DELMBX 7\$

STATUS

MBX NAME -(SP) -(SP)

#256, -(SP)

05

7E

00000000G

AE 7E 7E 8F 52

04

0100

E8 000C9 DD 000CC

000CE

000D4 000DB

00000

000E0

000ES

000D1 58:

65:

FB 3C

FB

DD

PI

V

0705

0706

PHONE V04-000	PHONE - VAX/VMS Telep PHN\$INIT_MAIN - Initi	hone Fac alize Ou	ility r Wonderi	full			984 02:15 984 12:53	:58 :28	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[PHONE.SRC]PHO	Page 16 NE.B32;1 (5)
	0000000G	53 05 64	FO (	703310000331510331	D4 000EF FB 000EF D0 000F E8 000F FB 0010 FB 0010 FB 0010 FB 0011 FB 0011 FB 0011 FB 0011 FB 0011 FB 0011 FB 0011 FB 0012 FB 0012 FB 0012	7\$: 8\$: 9\$: 10\$:	CLRL CALLS MOVL BLBS PUSHL CALLS CALLS MOVL BLBS PUSHL PUSHAB CALLS MOVL BLBS PUSHL CALLS PUSHAB CALLS PUSHAB CALLS RET	#0, PH #0, PH #0, PH RO, ST STATUS #1, LI EXIT O #1, SY RO, ST STATUS STATUS	S\$CREMBX ATUS . 9\$  B\$SIGNAL INSMBX_ENABLE INSDCL_COMMAND_LINE INSINIT_TERM ATUS . 10\$  B\$SIGNAL ONTROL_BLOCK S\$DCLEXH ATUS . 11\$  B\$SIGNAL	0718 0726 0732 0738 0739 0743

; Routine Size: 299 bytes. Routine Base: \$CODE\$ + 00DB

```
PHONE - VAX/VMS Telephone Facility 16-Sep-1984 02:15:58
PHN$DCL_COMMAND_LINE - Get Command Line Goodies 14-Sep-1984 12:53:28
PHONE
                                                                                                VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                DISK$VMSMASTER: [PHONE.SRC]PHONE.B32:1
                          *sbttl 'PHN$DCL_COMMAND_LINE - Get Command Line Goodies'
  0750
0751
0752
0753
0755
0755
0756
0757
0761
0765
0766
0766
0766
0767
                            Functional Description:
                                   This routine is called to 'parse the command line'. All the work
                                   has been done by DCL, but we need to use the callback mechanism
                                   to get the information.
                            Formal Parameters:
                                   none
                            Implicit Inputs:
                                   global data
                            Implicit Outputs:
                                   global data
                            Returned Value:
                                   none
                            Side Effects:
                 0769
0769
0770
0771
0772
0773
                          global routine phn$dcl_command_line: novalue = begin
                 0774
0775
                          local
                 0776
0777
                                   status: long;
                 0778
                 0779
                          ! First we get the switch hook character as specified by the qualifier.
                 0780
                 0781
                          clisget_value(describe('SWITCH_HOOK'),phnsqg_switch_hook);
                 0782
0783
                            Now we get the viewport size, as specified by the qualifier.
                 0784
                            to convert the value to binary and make sure it's within the valid range.
                 0785
0786
0787
0788
                          begin
                          local
                                   local_described_buffer(size_buf,10);
                 0789
                 0790
                          cli$get_value(describe('VIEWPORT_SIZE'), size_buf);
                 0791
0792
0793
0794
                          status = ots$cvt_ti_l(size_buf,phn$gl_viewport_size,4,%b'11');
                          if .status eqlu ss$ normal then
                                   0795
                          else
                 0796
0797
                                   phn$gl_viewport_size = pub_k_maxlines;
                          end:
                 0798
0799
                          ! Now we get the scroll flag, as specified by the qualifier.
                 0800
                 0801
                          phn$gb_scroll = cli$present(describe('SCROLL'));
                 0802
                 0803
                            Now we have to retrieve the command line tokens. If present, these
                 0804
                            make up a phone command that we are to execute first. Sit in a loop
                            and queue cmd_parse steering messages for each token.
```

P

```
PHONE - VAX/VMS Telephone facility 16-Sep-1984 02:15:58
PHN$DCL_COMMAND_LINE - Get Command Line Goodies 14-Sep-1984 12:53:28
PHONE V04-000
                                                                                            VAX-11 Bliss-32 V4.0-742
                                                                                            DISKSVMSMASTER: [PHONE.SRC]PHONE.832:1
                                                                                                                                       (6)
  incru i from 1 to 4 do (
                                 local
                                          local_described_buffer(token_buf,80);
                                 describe('TOKEN2');
describe('TOKEN3');
                                                 tes)
                                                                                    token_buf);
                                 str$trim(token_buf, token_buf, token_buf);
                                 phn$queue_smb(smb__cmd_parse,token_buf);
                                 );
                        ):
                           Now we can queue a carriage return to end the command. It doesn't hurt
                         ! if there wasn't a command.
                         phn$queue_smb(smb__cmd_parse,describe(%char(ret)));
                        return;
                        end:
                                                                              .PSECT $PLIT$, NOWRT, NOEXE, 2
                                     48
                                         43
                                             54
                                                 49
                                                     57 53
                                                               00034 P.AAG:
                                                                                     \SWITCH_HOOK\
                                                                              .ASCII
                                                               0003F
                                                                              .BLKB
                                                    00000000B
                                                               00040 P.AAF:
                                                                              .LONG
                                                               00044
                                                                              .ADDRESS P.AAG
                                                              00048 P.AAI:
00055
                    53
                             54
                                 52
                                         50 57 45 49
                         SF.
                                     4F
                                                                              .ASCII \VIEWPORT_SIZE\
                                                                              .BLKB
                                                 000000000
000000000
52 43 53
                                                               00058 P.AAH:
                                                                              . LONG
                                                                              ADDRESS P.AAI
                                                               00060 P.AAK:
                                             4F
                                                                              .ASCII \SCROLL\
                                                               00066
                                                                              .BLKB
                                                    00000000
                                                               00068 P.AAJ:
                                                                              . LONG
                                                                              . ADDRESS P. AAK
                                         4E 45 4B 4F 54
                                                               00070 P.AAM:
                                                                                     \TOKEN1\
                                                                              .ASCII
                                                               00076
00078
                                                                              .BLKB
                                                    00000000
                                                                     P.AAL:
                                                                              . LONG
                                                                              .ADDRESS P. AAM
                                                               00080 P.AAO:
                                      32
                                         4E
                                             45
                                                                                     \TOKEN2\
                                                                              .ASCII
                                                               00086
00088
                                                                              .BLKB
                                                    00000006
                                                                     P.AAN:
                                                                             . LONG
                                                    00000000.
                                                                              .ADDRESS P.AAO
                                                               00090
                                     33
                                         4E
                                             45
                                                                     P. AAQ:
                                                                                     \TOKEN3\
                                                                              .ASCII
                                                                              .BLKB
                                                    00000006
                                                               00098
                                                                     P.AAP:
                                                                              . LONG
                                                    00000000
                                                               00090
                                                                              .ADDRESS P.AAQ
```

P

00070

00080

00082

00077 58:

00086 68:

DO

9Ã

DD

AE 5E 52

0008

MOVB

MOVL

MOVZBL

MOVAB

PUSHL

CASEL

. WORD

RO,

7\$-65,-

PHN\$GB\_SCROLL

#80, TOKEN BUF TOKEN BUF +8, TOKEN BUF +4

0807

0810

0812

04

04

0014

001A

AE

01

000E

PHONE V04-000	PHONE - VAX/VMS Telep! PHN\$DCL_COMMAND_LINE -	hone - Get	Facility Command	Line	Goo	dies 1	1 12 6-Sep-1 4-Sep-1	984 02:15 984 12:53	:58 :28	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[PHONE.SRC]PHONE	Page 20 .832;1 (6)
									8\$-6\$, 9\$-6\$, 10\$-6\$		0 0 0
		50	38	A3	9E	0008E	78:	BAVOM	P.AAL,	, RO	0813
		50	48	A3	9E	00094	8\$:	MOVAB	P. AAN.	, RO	: 0814
		50	58	A5 10 A3 0A A3	9E	00098 0009A	9\$:	MOVAB	118 P.AAP,	, RO	0815
		50	68	A3 50	9E	0009E	105:	MOVAB	11\$ P.AAR,	, RO	0816
		64		95	DD FB	000A4 000A6	115:	CALLS	#2, CL	ISGET_VALUE	0812 0818
			04	AE	DD 9F	000A9		PUSHAB	SP TOKEN	BUF	: 0818
	0000000G	00	08	02 5E AE 03 6E 0F	9F FB B5	000AE 000B1 000B8		CALLS TSTW	#3. ST TOKEN	BUF BUF IRSTRIM BUF	0820
			74	0F A3 03	13 9F	000BA		BEQL PUSHAB	P.AAI		: 0821
		66		03 02 5E	FB DD	000C4		BRB MOVAB BRB MOVAB BRB MOVAB PUSHL CALLS PUSHAB PUSHAB CALLS TSTW BEGL PUSHAB PUSHAB PUSHAB CALLS TSTW CALLS CALLS	#3 #2. PH SP #3	HN\$QUEUE_SMB	0822
		66		02	FB	80000	128.	CALLS	#2, PH	HN\$QUEUE_SMB	. 0907
		04		52	D6	000CB	125:	INCL	1 #4		0807
			0080	022 522 523 030 02	18 9f DD	20000		CMPL BLEQU PUSHAB	P. AAV		0829
		66		02	FB 04	8d000		PUSHL CALLS RET	#2, PH	HN\$QUEUE_SMB	0833

Routine Base: \$CODE\$ + 0206

; Routine Size: 220 bytes,

```
PHONE - VAX/VMS Telephone Facility 16-Sep-1984 02:15:58
PHNSQUEUE_SMB - Queue a Steering Message Block 14-Sep-1984 12:53:28
PHONE V04-000
                                                                                                             VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER:[PHONE.SRC]PHONE.B32:1
                             %sbttl 'PHN$QUEUE_SMB - Queue a Steering Message Block'
   Functional Description:
                                        This routine is called to create a Steering Message Block and
                                       queue in onto the SMB queue.
                                Formal Parameters:
                                                           The type code for the SMB.
                                       type
                                                           Address of descriptor of optional message text.
                                        text
                                Implicit Inputs:
global data
                                Implicit Outputs:
                                       global data
                                Returned Value:
                                       none
                                Side Effects:
                             global routine phn$queue_smb(type,text): novalue = begin
                             bind
                                       text_dsc = .text: descriptor:
                             local
                                       status: long,
                                       smb_size: long,
s: ref smb;
                             builtin
                                       nullparameter:
                               We begin by calculating the total size of the SMB and allocating memory for it.
                             smb_size = smb_k_size + (if nullparameter(2) then 0
                                                                             else .text_dsc[len]);
                             status = lib$get_vm(smb_size,s);
check (.status);
                                Now we fill in the new SMB with its length, the message type code, and the message text. We also build a descriptor for the message text.
                             s[smb_w_length] = .smb_size;
s[smb_w_type] = .type;
                              begin
                             bind
                                       smb_msq_dsc = s[smb_q_msq]: descriptor;
                              if nullparameter(2) then
                                        smb_msg_dsc[len] = 0
```

								.EXTRN	SYS\$SETEF	
			5E 58 02	08	03F0 08 C2 AC D0 6C 91 05 1F AC D5	00002 00005 00009		ENTRY SUBL2 MOVL CMPB BLSSU TSTL	PHN\$QUEUE_SMB, Save R2,R3,R4,R5,R6,R7,R8,R9 #8, SP TEXT, R8 (AP), #2 1\$ 8(AP)	0858 0861 0875
		04	50 AE	14	50 D4 03 11 68 30 A0 9E 5E D0	00013	1\$: 2\$: 3\$:	BNEQ CLRL BRB MOVZWL MOVAB PUSHL	2\$ R0 3\$ (R8), R0 20(R0), SMB_SIZE SP	0876 0875 0877
		000000006	00 59 09	08	50 DC	00024 0002B		PUSHAB CALLS MOVL BLBS PUSHL	SMB_SIZE #2, LIB\$GET_VM R0, STATUS STATUS, 4\$ STATUS	0878
		000000000 80 A0	00 57 A7	04	01 FE	0002E 00031 00033 0003A 0003D	48:	CALLS MOVL MOVW MOVW MOVAB CMPB BLSSU TSTL	#1, LIB\$SIGNAL S, R7 SMB_SIZE, 8(R7) TYPE, 10(R7) 12(R7), R6 (AP), #2	0883
		0A	A7 56 02	04 04 00				MOVAB CMPB BLSSU	2.3	0884 0887 0889
				08	AC DS	0003D 00042 00047 0004B 00050 00053 00055	5\$:	TSTL BNEQ CLRW BRB	8(AP) 6\$ (R6) 7\$	0890
14	A7	04	88 66 <b>A6</b>	14	05 15 04 12 66 84 0E 11 68 28 68 86 A7 9E 50 04	00059 0005F 00062 00067 00069	DD:	MOVES MOVAB	(R8), 24(R8), 20(R7) (R8), (R6) 20(R7), 4(R6)	0892 0893 0894 0902
		0000°	DF		67 08 02 12	00069 0006E	78:	CLRL INSQUE BNEQ	RO (R7), asmb_queue_HEAD+4 8\$	0702

PHONE V04-000	PHONE - VAX/VMS Teleph PHN\$QUEUE_SMB - Queue	one Facility a Steering Mess	age	Blo	ock 1	L 12 16-Sep-19 14-Sep-19	84 02:15 84 12:53	:58	VAX-11 BL!ss-32 V4.0 DISK\$VMSMASTER:[PHON	)-742 IE.SRCJPHONE.B32;1
		59 01	50 50 59	D6 D0 D1	00070 00077 0007	8\$:	INCL MOVL CMPL BNEQ PUSHL CALLS	RO RO STÁT	STATUS TUS, #1	090
	00000000G	00	03 01	DD FB 04	0007/ 0007( 0008:	98:	PUSHL CALLS RET	#3 #1,	SYS\$SETEF	090

; Routine Size: 132 bytes, Routine Base: \$CODE\$ + 02E2

```
M 12
16-Sep-1984 02:15:58
14-Sep-1984 12:53:28
PHONE V04-000
                    PHONE - VAX/VMS Telephone Facility PHN$KILL_SMB - Kill an Obsolete SMB
                                                                                                              VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PHONE.SRC]PHONE.B32;1
                             %sbttl 'PHN$KILL_SMB - Kill an Obsolete SMB'
                   Functional Description:
This routine is called to deallocate an obsolete Steering
Message Block.
                                Formal Parameters:
                                                            Address of the obsolete SMB.
                                        obsolete_smb
                                Implicit Inputs:
                                        global data
                                Implicit Outputs:
                                        global data
                                Returned Value:
                                        none
                                Side Effects:
                              global routine phn$kill_smb(obsolete_smb): novalue = begin
                              bind
                                        os = .obsolete_smb: smb;
                              local
                                        status: long,
                                        smb_size: long;
                              ! All we have to do is get the length of the SMB and deallocate it.
                             smb_size = .os[smb_w_length];
status = lib$free_vm(smb_size,obsolete_smb);
                              check (.status);
                              return;
                              end:
```

	50 7E	04 08 04	0000 AC DO AC 90 AE 90	0 00000 0 00002 C 00006 F 0000A	.ENTRY MOVL MOVZWL PUSHAB PUSHAB	PHN\$KILL_SMB, Save nothing OBSOLETE_SMB, RO 8(RO), SMB_SIZE OBSOLETE_SMB SMB_SIZE	0932 0935 0944 0945
00000000	00	04	02 FI	8 00010	CALLS BLBS PUSHL	#2, LIBSFREE_VM STATUS, 1\$ STATUS	0946
000000006	00		50 E 50 D 01 F	9 0001¢ 4 00023 1\$:	CALLS	#1, LIB\$SIGNAL	0949

PHONE V04-000

PHONE - VAX/VMS Telephone Facility PHN\$KILL\_SMB - Kill an Obsolete SMB

N 12 16-Sep-1984 02:15:58 VAX-11 Bliss-32 V4.0-742 Page 25 14-Sep-1984 12:53:28 DISK\$VMSMASTER:[PHONE.SRC]PHONE.B32;1 (8)

; Routine Size: 36 bytes, Routine Base: \$CODE\$ + 0366

```
PHONE
                PHONE - VAX/VMS Telephone facility 16-Sep-1984 02:15:58 ANL&PREPARE_USERS_TARGET - Prepare Target Enter 14-Sep-1984 12:53:28
                                                                                          VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                          DISK$VMSMASTER: [PHONE.SRC]PHONE.B32:1
                        %sbttl 'ANL$PREPARE_USERS_TARGET - Prepare Target Entered by User'
  0951
                0952
                          Functional Description:
                                 This routine is called to prepare a target entered by the user.
                0954
                                 It performs a logical name translation in case the user entered
                0955
                                 a logical name. It also handles node names without the double colon.
                0956
0957
                          Formal Parameters:
                0958
                                                 Address of descriptor of user's target.
A flag, true if target is just a node name.
                                 users
                0959
                                 just_node
                0960
                                 final
                                                 Address of descriptor of buffer to receive final
                0961
                                                 target. We set the length.
                0962
                          Implicit Inputs:
                0964
                                 global data
                0965
                0966
                          Implicit Outputs:
                0967
                                global data
                0968
                0969
                          Returned Value:
                0970
                                 none
  651
                0971
                0972
0973
                          Side Effects:
                0974
0975
                0976
0977
  656
                        global routine phn$prepare_users_target(users, just_node, final): novalue = begin
                0978
0979
  658
  659
                        bind
                0980
  660
                                users_dsc = .users: descriptor,
                0981
  661
                                final_dsc = .final: descriptor;
                0982
0983
  662
  663
                        local
                0984
  664
                                status: long:
                0985
  665
                0986
  666
  667
                0987
                          first we try translating the user's target as if it were a logical name.
  668
                0988
                        ! If that fails, we just move the target into the final buffer.
  669
                0989
                       670
               0990
  671
  672
673
                0992
                0993
  674
                0994
                0995
  676
                0996
                        ) else
                0997
0998
                                 check (.status):
  678
                0999
                          Now if this is supposed to be just a node name, the double colon is
  680
                1000
                        ! optional. Add it if we need to.
  681
                1001
                      682
                1002
  684 685
                1004
                1005
                1006
                                ):
```

PU

HONE - VAX/VMS Teleph NL\$PREPARE_USERS_TAR( )07 2 008 2 return; 009 2 010 1 end;	none Facility SET - Prepare	Target	C 13 16-Sep-19 Enter 14-Sep-19	984 02:15 984 12:53	:58 VAX-11 Bliss-32 V4.0-742 Pag :28 DISK\$VMSMASTER:[PHONE.SRC]PHONE.B32;1	e 27 (9)
				.PSECT	\$PLIT\$,NOWRT,NOEXE,2	
		3A 3A 3A 3A	000C8 P.AAX: 000CA P.AAY:	.ASCII	\::\	
				.EXTRN	SYS\$TRNLOG	
				.PSECT	\$CODE\$,NOWRT,2	
		007	c 00000	.ENTRY	PHNSPREPARE_USERS_TARGET, Save R2,R3,R4,R5,-	0977
`	52 56 00	AC D AC D 7E 7 7E D	0 00006 C 0000A	MOVL MOVL CLRQ CLRL	R6 USERS, R2 FINAL, R6 -(SP) -(SP)	0980 0981 0992
*	0044	56 D 8F B	D 0000E B 00010	CLRL PUSHL PUSHR	R6 #^M <r2,r6></r2,r6>	
00000000G 00000154	00 8F	06 F	B 00014 1 0001B	CALLS	#6, SYS\$TRNLOG STATUS, #340	0993
04 B6 04	66 B2	AC 77E 56F 050B 662 050 01 AC	0 00024 8 00027 1 0002D	BNEQ MOVW MOVC3 BRB	1\$ (R2), (R6) (R2), a4(R6) 2\$	0994 0995 0993
	09	50 E	8 0002F 1\$: D 00032	BLBS PUSHL	STATUS, 2\$ STATUS	0997
0000000G	00 1B 08	01 F AC E 66 B	B 00034 9 0003B 2\$: 5 0003F	CALLS BLBC TSTW	#1, LIB\$SIGNAL JUST_NODE, 3\$ (R6)	1002

PU

1003

1004 1005 1010

				0000000G	00 1B	08	01 AC 66	FB E9 B5
				0000*	50 50 CF	04 FE	66 A6 A0	3C CO B1
				,	60 66	0000	CF 02	B0 A0 04
Routine	Size:	91	bytes,	Routine	Base:	\$CODE\$	+ 03	88

1011 0 end eludom

.EXTRN LIB\$SIGNAL

(R6), R0 4(R6), R0 -2(R0), P.AAX 3\$

P.AAY, (RO) #2, (R6)

BEQL

CMPW BEQL

MOVW ADDW2 RET

MOVZWL ADDL2

PSECT SUMMARY

691

PHONE V04-000

```
PHONE
VO4-000
                           PHONE - VAX/VMS Telephone Facility 16-Sep-1984 02:15:58 ANL$PREPARE_USERS_TARGET - Prepare Target Enter 14-Sep-1984 12:53:28
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[PHONE.SRC]PHONE.B32;1
             Name
                                                        Bytes
                                                                                                          Attributes
                                                                        NOVEC. WRT. RD ,NOEXE,NOSHR, NOVEC. WRT. RD ,NOEXE,NOSHR, NOVEC,NOWRT. RD ,NOEXE,NOSHR, NOVEC,NOWRT, RD , EXE,NOSHR,
                                                                                                                                        REL,
REL,
REL,
                                                                                                                                                  CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
                                                                                                                             LCL,
LCL,
LCL,
     SOWNS.
     $GLOBAL$
     SPLITS.
     $CODE$
                                                      Library Statistics
                                                                            ----- Symbols -----
                                                                                                                                Pages
                                                                                                                                                    Processing
                                                                                                       Percent
             File
                                                                            Total
                                                                                           Loaded
                                                                                                                                Mapped
                                                                                                                                                    Time
                                                                             9776
     $255$DUA28:[SYSLIB]STARLET.L32;1
                                                                                                  35
                                                                                                                                  581
                                                                                                                                                       00:00.7
```

V(

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: PHONE/OBJ=OBJ\$: PHONE MSRC\$: PHONE/UPDATE=(ENH\$: PHONE)

; Size: 997 code + 377 data bytes ; Run Time: 00:14.9 ; Elapsed Time: 00:59.4 ; Lines/CPU Min: 4077 ; Lexemes/CPU-Min: 33215 ; Memory Used: 156 pages ; Compilation Complete 0305 AH-BT13A-SE

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